Phase 3 – West Lynn Sewer Separation

TABLE OF CONTENTS

TECHNICAL SPECIFICATIONS

DIVISION 01 – General Requirements

01 10 00	Summary
01 22 00	Measurement and Payment
01 29 00	Payment Procedures
01 29 73	Schedule Of Values
01 31 00	Project Management and Coordination
01 31 16	Contract Coordination
01 32 00	Construction Documentation
01 32 16	CPM Construction Schedule
01 33 00	Submittals
01 33 17	Structural Design, Support, and Anchorage
01 35 00	Special Procedures
01 35 29	Health, Safety And Emergency Response Procedures
01 35 45	Construction Waste Management
01 35 53	Site Security
01 41 01	Permits and Regulatory Requirements
01 42 13	Abbreviations
01 42 19	Reference Standards
01 45 00	Quality Control
01 45 23	Testing Laboratory Services
01 50 00	Temporary Facilities and Controls
01 50 69	Temporary Sewer Main and Storm Drain Bypass
01 50 70	Temporary Potable Water Main Bypass
01 52 00	Field Offices, Equipment And Services
01 54 00	Construction Aids
01 55 00	Site Access And Storage
01 55 26	Traffic Regulation
01 56 00	Temporary Barriers and Enclosures
01 56 39	Temporary Tree and Plant Protection
01 57 16	Pest Control
01 57 19	Temporary Environmental Controls
01 60 00	Products, Materials, Equipment And Substitutions
01 71 13	Mobilization
01 74 20	Gravity Pipeline Testing
01 74 23	Final Cleaning
01 74 30	Pressure Pipe Testing And Disinfection
01 74 40	Concrete Structure Testing
01 74 50	Television Inspections of Gravity Pipe

01 77 00	Project Closeout
01 77 01	Contract Closeout Procedures
01 78 39	Project Record Documents
01 79 00	Owner Staff Training

DIVISION 02 – Existing Conditions

02 27 00	Sedimentation and Erosion Control
02 41 19	Demolition, Modification, and Reconstruction
02 61 00	Soil Management and Disposal

DIVISION 03 – Concrete

03 01 30	Concrete Repair and Rehabilitation
03 11 00	Concrete Forming
03 15 00	Joint in Concrete
03 21 00	Reinforcement Steel
03 31 00	Cast-In-Place Concrete
03 41 00	Precast Concrete Underground Structures
03 41 13	Structural Precast Concrete
03 60 00	Grouting

DIVISION 04 – Masonry

04 05 19	Post Installed Anchors in Masonry
0420000	Unit Masonry Veneer Brick + Cavity
04 22 00	Reinforced Concrete Block Masonry

DIVISION 05 – Metals

05 40 00	Cold-Formed Metal Framing
05 50 00	Miscellaneous Metalwork
05 51 00	Metal Stairs and Railings (exterior)
05 53 00	Metal Gratings

DIVISION 06 – Wood, Plastics and Composites

06 10 00	Rough Carpentry
06 16 00	Sheathing

DIVISION 07 – Thermal and Moisture Protection

07 11 13	Bituminous Dampproofing
07 13 00	Self-Adhering Sheet Waterproofing
07 14 00	Fluid Applied Waterproofing
07 21 00	Thermal Insulation
07 26 00	Vapor Retarder
07 27 00	Air Barriers

07 54 00	Thermoplastic Membrane Roofing
07 62 00	Sheet Metal Flashing and Trim
07 71 00	Roof Specialties
07 72 00	Roof Accessories
07 81 00	Applied Fireproofing
07 84 10	Penetration Firestopping
07 84 40	Fire-Resistive Joint Systems
07 92 00	Joint Sealants
07 95 00	Expansion Control

DIVISION 08 – Openings

08 11 10	Hollow Metal Doors and Frames
08 90 00	Louvers and vents

DIVISION 09 - Finishes

09 61 10	Vapor Mitigation at Slab
09 90 00	Painting and Coating

DIVISION 10 – Specialties

10 14 00	Signage
10 26 00	Wall and Door Protection
10 28 00	Toilet Accessories
10 44 00	Fire Protection Specialties

DIVISION 22 – Plumbing

22 05 13	Common Motor Requirements for Plumbing Equipment
22 05 16	Expansion Fittings and Loops for Plumbing Piping
22 05 17	Sleeves and Sleeve Seals for Plumbing Piping
22 05 18	Escutcheons for Plumbing Piping
22 05 29	Hangers and Supports for Plumbing Piping and Equipment
22 05 53	Identification for Plumbing Piping and Equipment
22 05 17	Sleeves and Sleeve Seals for Plumbing Piping
22 07 19	Plumbing Piping Insulation
22 11 16	Domestic Water Piping
22 13 16	Sanitary Waste and Vent Piping
22 13 19	Sanitary Waste Piping Specialties
22 13 19.13	Sanitary Drains
22 33 00	Electric, Domestic-Water Heaters
22 42 13.13	Commercial Water Closets
22 42 16.13	Commercial Lavatories

DIVISION 23 – Heating, Ventilating, and Air Conditioning (HVAC)

23 05 13	Common Motor Requirements for HVAC Equipment
23 05 29	Hangers and Supports for HVAC and Equipment
23 05 48.13	Vibration Controls For HVAC
23 07 19	HVAC Piping Insulation
23 23 00	Refrigerant Piping
23 31 13	Metal Ducts
23 33 46	Flexible Ducts
23 34 13	Axial HVAC Fans
23 34 23	HVAC Power Ventilators
23 37 13.13	Air Diffusers
23 37 13.23	Registers and Grilles
23 81 26	Split-System Air-Conditioners
22 33 00	Electric, Domestic-Water Heaters
22 42 13.13	Commercial Water Closets
22 42 16.13	Commercial Lavatories

DIVISION 26 - Electrical

260000 260513	Electrical - General Medium-Voltage Cable
260519	Low-Voltage Electrical Power Conductors and Cables
260523	Control-Voltage Electrical Power Cables
260526	Grounding and Bonding for Electrical Systems
260529	Hangers and Supports for Electrical Systems
260533	Raceways and Boxes for Electrical Systems
260543	Underground Ducts and Raceways for Electrical Systems
260548.16	Seismic Controls for Electrical Systems
260553	Identification for Electrical Systems
260573	Short-Circuit, Coordination, and Arc-Flash Studies
260923	Lighting Control Devices
262413	Switchboards
262416	Panelboards
262713	Electricity Metering
262726	Wiring Devices
262816	Enclosed Switches and Circuit Breakers
262923	Variable-Frequency Motor Controllers
263213.14	Diesel Engine Generators
264313	Surge Protection for Low-Voltage Electrical Power Circuits
265119	LED Interior Lighting
265213	Emergency and Exit Lighting
265619	LED Exterior Lighting
26 56 68	Exterior Athletic Lighting

DIVISION 31 – Earthwork

31 09 13 Geotechnical Instrumentation and Monitoring

31 09 16	Foundation Performance Instrumentation
31 09 16.26	Bored and Augered Pile Load Tests
31 23 16	Deep Excavation
31 23 19	Dewatering
31 23 23	Controlled Low Strength Material
31 30 00	Earthwork
31 32 00	Soil Stabilization
31 37 00	Riprap
31 71 30	Trenchless Construction
31 75 00	Shaft Construction

DIVISION 28 – Electronic Safety and Security

28 20 00 Video Surveillance

DIVISION 32 – Exterior Improvements

32 11 00	Roadway and Sidewalk Work
32 12 16	Bituminous Concrete Pavement
32 13 13	Cement Concrete Pavement
32 30 00	Site Improvements
32 31 00	Chain Link Fence and Gates
32 80 00	Design-Build Irrigation
32 91 13.19	Loam & Landscape Soils
32 92 00	Loam and Seed
32 93 00	Planting

DIVISION 33 – Utilities

33 01 30	Cured-In-Place Pipe Lining
33 05 07.23	Utility Boring and Jacking
33 05 07.24	Casing Piping for Utility Jacking
33 05 19	Ductile Iron Piping
33 05 31	PVC Non-Pressure Piping
33 05 33	Large Polyethylene Pressure Piping
33 05 39	Reinforced Concrete Piping
33 05 39.49	Reinforced Concrete Box Sections for Sewers and Culverts
33 05 61	Manholes
33 05 62	Catchbasins
33 05 63	Concrete Vaults and Chambers
33 05 64	Brick Masonry for Utilities
33 10 00	Water Utilities
33 42 23	Headwalls and Endwalls for Stormwater Piping

DIVISION 40 – Instrumentation and Control

40 61 13	Process Control System General Provisions
40 61 93	Process Control System Input/Output List
40 61 96	Process Control Descriptions

40 63 00	Control System Equipment
40 66 00	Network and Communication Equipment
40 67 00	Control System Equipment Panels and Racks
40 71 13	Magnetic Flow Meters
40 72 23	Radar Level Meters
40 72 76	Level Switches
40 73 13	Pressure and Differential Pressure Gauges
40 73 26	Gauge-Pressure Transmitter
40 74 63	Temperature Transmitters

DIVISION 43 – Process Handling Equipment

43 10 50	Piping General
43 30 00	Valves, General
43 30 12	Valves and Gate Actuators
43 30 52	Miscellaneous Valves
43 30 58	Flap Gates

APPENDICES

Appendix A	Geotechnical Data
A	Carrier and a stall Table

Appendix B Environmental Technical Memoranda
Appendix C CCTV Data Logs